

02/06/14 Agenda:

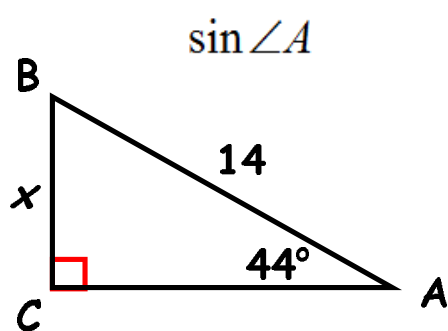
- Review Homework
 - Worksheet 8 - Find Missing Angles
- Section 7.5-7.7 - Trig Ratios - Mixed Review
 - Activity - A Bunch of Right Triangles
- Homework
 - Worksheet 9 - Mixed Review

Section 7.5 - 7.7 - Trig Functions - Review

Target 7D & 7E

February 6, 2014

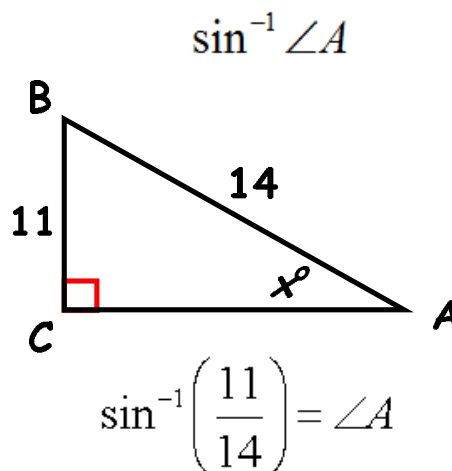
Side by Side Comparison



$$\sin \angle A = \frac{\text{opp}}{\text{hyp}}$$

$$\sin 44^\circ = \frac{x}{14}$$

$$14 * \sin 44^\circ = x$$



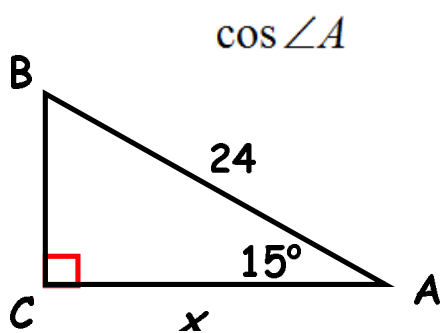
$$\sin^{-1} \left(\frac{11}{14} \right) = \angle A$$

Section 7.5 - 7.7 - Trig Functions - Review

Target 7D & 7E

February 6, 2014

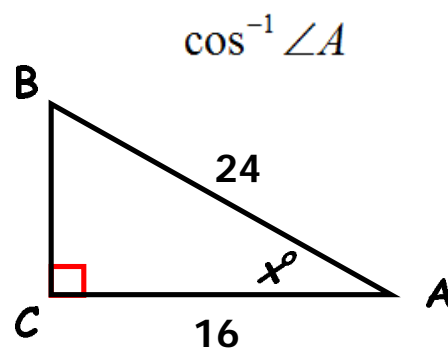
Side by Side Comparison



$$\cos \angle A = \frac{\text{adj}}{\text{hyp}}$$

$$\cos 15^\circ = \frac{x}{24}$$

$$24 * \cos 15^\circ = x$$



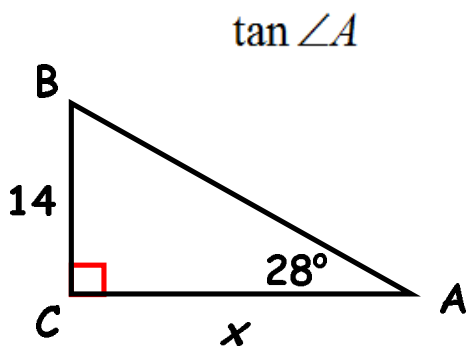
$$\cos^{-1} \left(\frac{16}{24} \right) = \angle A$$

Section 7.5 - 7.7 - Trig Functions - Review

Target 7D & 7E

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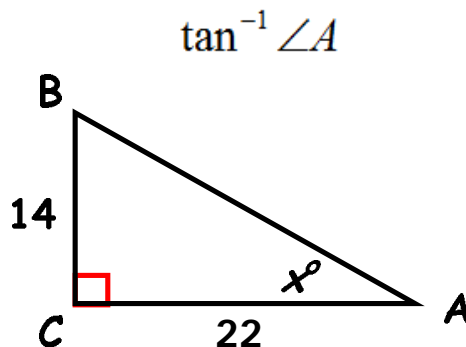
Side by Side Comparison



$$\tan \angle A = \frac{\text{opp}}{\text{adj}}$$

$$\tan 28^\circ = \frac{14}{x}$$

$$x = \frac{14}{\tan 28^\circ}$$



$$\tan^{-1} \left(\frac{14}{22} \right) = \angle A$$

Section 7.5 - 7.7 - Trig Functions - Review

Target 7D & 7E

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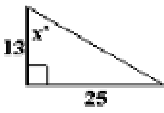
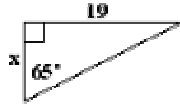
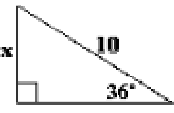

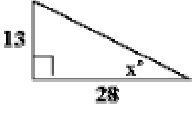
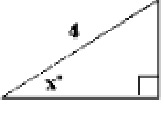
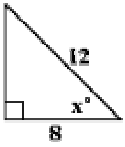
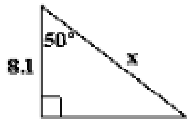

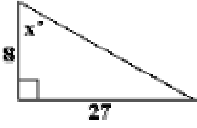
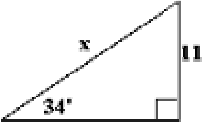
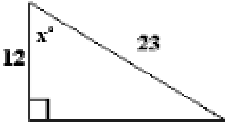
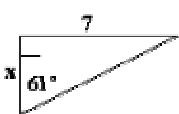
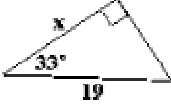
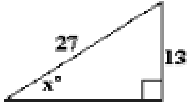
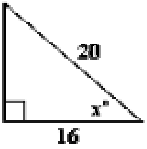
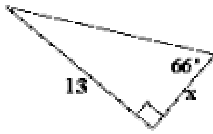
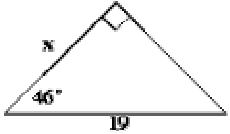
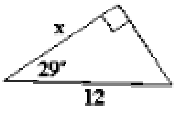
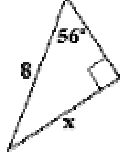
- There are 6 categories.
- Cut the triangles apart and glue them by category.
- Solve at least 10 of the problems.
(I would recommend at least 1 from each group.)

**How will you determine
what you need to find?**

**How will you know which
column it belongs in?**

$\sin(x) = \frac{\textit{Opposite}}{\textit{Hypotenuse}}$	$\cos(x) = \frac{\textit{Adjacent}}{\textit{Hypotenuse}}$	$\tan(x) = \frac{\textit{Opposite}}{\textit{Adjacent}}$
FIND A SIDE	FIND A SIDE	FIND A SIDE
FIND AN ANGLE	FIND AN ANGLE	FIND AN ANGLE

A Bunch of Right Triangles...

<p align="right">A</p> 	<p align="right">B</p> 	<p align="right">C</p> 
<p align="right">D</p> 	<p align="right">E</p> 	<p align="right">F</p> 
<p align="right">G</p> 	<p align="right">H</p> 	<p align="right">I</p> 
<p align="right">J</p> 	<p align="right">K</p> 	<p align="right">L</p> 
<p align="right">M</p> 	<p align="right">N</p> 	<p align="right">O</p> 
<p align="right">P</p> 	<p align="right">Q</p> 	<p align="right">R</p> 
<p align="right">S</p> 	<p align="right">T</p> 	<p align="right">U</p> 